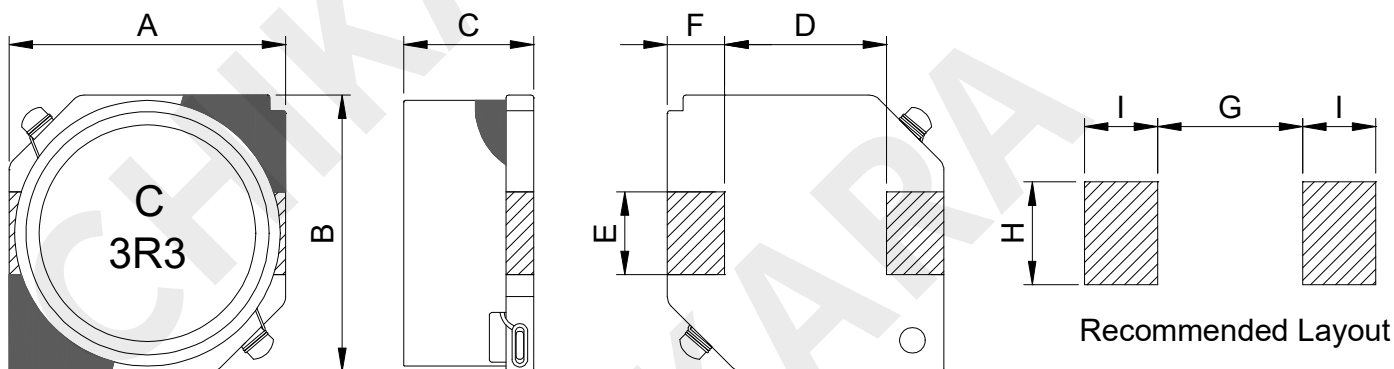


Features

- Magnetically shielded construction
- Storage temperature range:-40°C to +125°C
- Operating temperature range:-40°C to +125°C
(including coil's self-temperature rise)
- Moisture sensitivity level:1
- Packaging:1000pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



A	B	C	D	E	F	G	H	I
7.0±0.3	7.0±0.3	4.5±0.3	4.0±0.3	2.0±0.2	1.5±0.2	4.0	2.2	2.0

Part Number Description

SP10 - 070045 3R3 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic



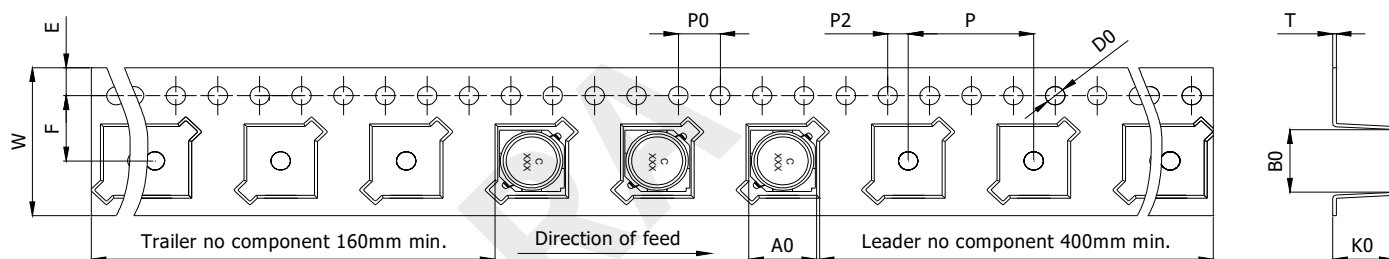
Electrical Characteristic

Part Number	Inductance L0(uH)	DCR (Ω)	Isat (A)Max.	Irms (A)Max.
SP10-0700453R3M	3.3±20%	0.020±20%	2.50	2.30
SP10-0700454R7M	4.7±20%	0.030±20%	2.00	2.10
SP10-0700456R8M	6.8±20%	0.039±20%	1.70	1.74
SP10-070045100M	10±20%	0.036±20%	1.30	1.68
SP10-070045150M	15±20%	0.052±20%	1.10	1.53
SP10-070045220M	22±20%	0.061±20%	0.90	1.34
SP10-070045330M	33±20%	0.096±20%	0.82	1.09
SP10-070045470M	47±20%	0.125±20%	0.75	0.92
SP10-070045680M	68±20%	0.175±20%	0.60	0.77
SP10-070045101M	100±20%	0.250±20%	0.50	0.65
SP10-070045151M	150±20%	0.340±20%	0.40	0.55
SP10-070045221M	220±20%	0.520±20%	0.33	0.45
SP10-070045331M	330±20%	0.740±20%	0.25	0.37
SP10-070045471M	470±20%	1.050±20%	0.22	0.31
SP10-070045681M	680±20%	1.480±20%	0.20	0.27
SP10-070045102M	1000±20%	2.280±20%	0.14	0.25

- Test frequency and voltage:100KHz,0.1Vrms.
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop approximately 10%.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

Packaging Specification

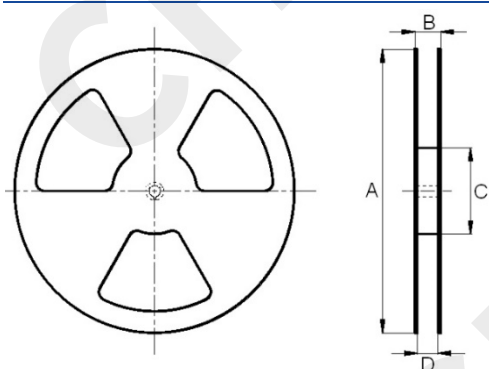
■ Carrier Tape (Unit:mm)



W	P	A0	B0	K0	E	F	P0	P2	D0	T
16.0±0.3	12.0±0.1	7.5±0.1	7.5±0.1	4.9±0.1	1.75±0.1	7.5±0.1	4.0±0.1	2.0±0.1	Φ1.5±0.1	0.4±0.05

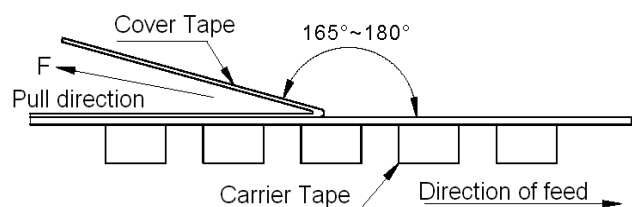
■ Reel (Unit:mm)

A	B	C	D
Φ330±1.0	22.1Max.	Φ100±1.0	16.5±0.5



■ Taping Method

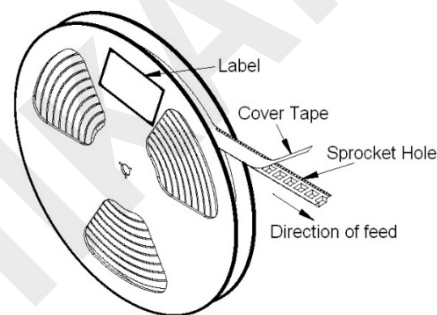
Peel-off strength	Peel-off angle	Peel-off speed
F=0.1N~1.3N	165°~180°	300mm/min.



※ Packing is referred to the international standard IEC 60286-3.

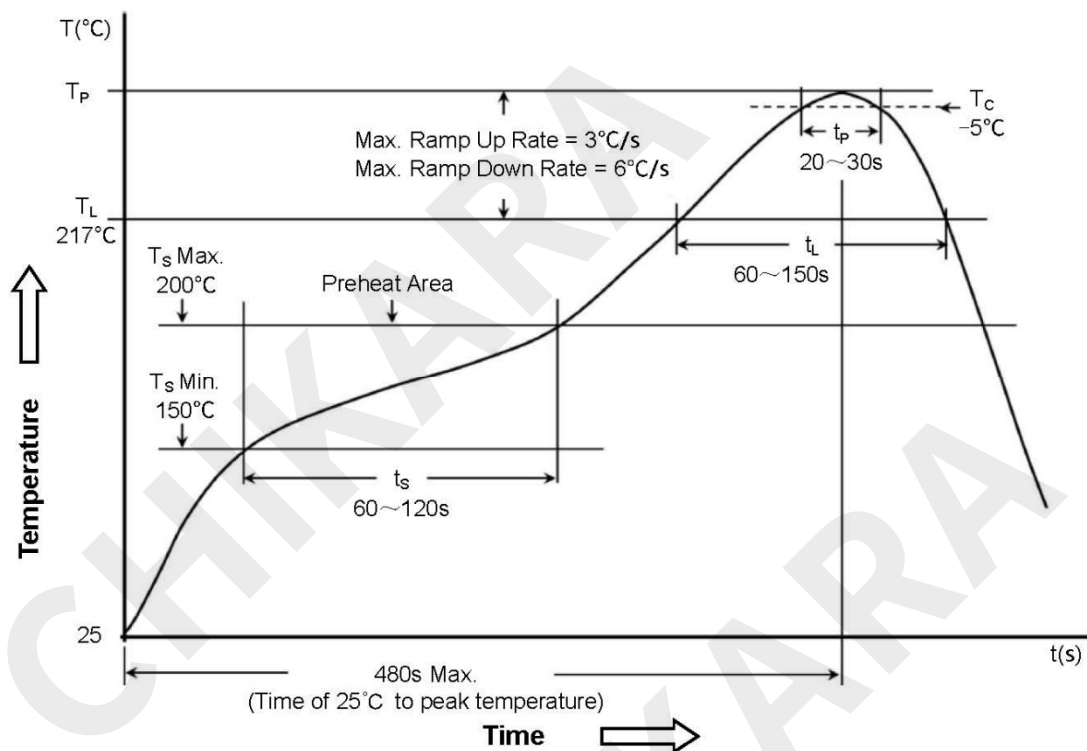
■ Package Quantity

Parts per reel
1000Pcs



Soldering Specification

- Reflow profile for SMT components



- Classification of peak package body temperature (Tp)

	Package Thickness	Package Volume		
		<350mm ³	350~2000mm ³	>2000mm ³
PB-Free Assembly	<1.6mm	260°C	260°C	260°C
	1.6~2.5mm	260°C	250°C	245°C
	≥2.5mm	250°C	245°C	245°C

※ Reflow is referred to standard IPC/JEDEC J-STD-020D.